Doubly_LinkedList 1

Reverse a given Doubly Linked List and print it.

Input Format

First line contains T which is the number of nodes in doubly linked list. T lines follow each value of each node'.

Constraints

T > 0

Output Format

Print the elements of original linked list and reversed linked list.

Sample Input 0

```
4
10 8 4 2
```

Sample Output 0

```
Original linked list
10 8 4 2
The reversed Linked List is
2 4 8 10
```

Sample Input 1

```
4
10 18 14 12
```

Sample Output 1

```
Original linked list
10 18 14 12
The reversed Linked List is
12 14 18 10
```